

## ENGINEERING CHANGE NOTICE

1. ECN 190362

Page 1 of 1

Proj.  
ECN

2. ECN Category (mark one) Supplemental <input checked="" type="checkbox"/> Direct Revision <input type="checkbox"/> Change ECN <input type="checkbox"/> Temporary <input type="checkbox"/> Standby <input type="checkbox"/> Supersedeure <input type="checkbox"/> Cancel/Void <input type="checkbox"/>	3. Originator's Name, Organization, MSIN, and Telephone No. J. B. Duncan, Environmental Engineering Support Group, H6-05, 372-0896		4. Date 09/29/93
	5. Project Title/No./Work Order No. 100-HR-3 Groundwater Treatability	6. Bldg./Sys./Fac. No.	7. Impact Level 3Q
	8. Document Numbers Changed by this ECN (includes sheet no. and rev.) MHC-SD-EN-TC-003, Rev. 1 pages 1 & 9	9. Related ECN No(s). 197978	10. Related PO No.

11a. Modification Work <input type="checkbox"/> Yes (fill out Blk. 11b) <input checked="" type="checkbox"/> No (NA Blks. 11b, 11c, 11d)	11b. Work Package No. NA	11c. Modification Work Complete NA Cog. Engineer Signature & Date	11d. Restored to Original Condition (Temp. or Standby ECN only) NA Cog. Engineer Signature & Date
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## 12. Description of Change

Page 1, 1.0 Introduction, 3rd line, add "(VI) [hereafter called uranium]" after the word Uranium; on second line of last paragraph of page 1, should be "chromate" instead of chroamte; and page 9, in first paragraph after Table 3, on next to last line, delete the word "chemically" in front of the words trace constituent.

APPROVED FOR  
PUBLIC RELEASE  
V. Burkhead 9/30/93

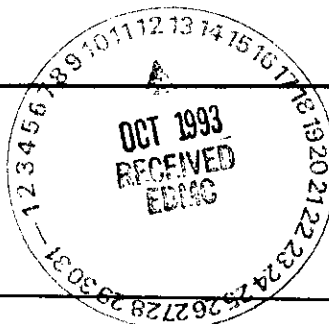
13a. Justification (mark one)	Criteria Change <input type="checkbox"/>	Design Improvement <input type="checkbox"/>	Environmental <input type="checkbox"/>
As-Found <input type="checkbox"/>	Facilitate Const. <input type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>	Design Error/Omission <input type="checkbox"/>

## 13b. Justification Details

Comments incorporated for clarity.

14. Distribution (include name, MSIN, and no. of copies)				RELEASE STAMP	
Central Files (2)	L8-04	Correspondence Control	A3-01	OFFICIAL RELEASE 11 BY WHC DATE OCT 01 1993 Station #12	
EPIC (2) (1)	H6-08	J. B. Duncan	H6-05		
ERC (1)	H6-07	K. A. Gano	X0-21		
J. K. Patterson	H6-27	J. G. Woolard	H6-05		

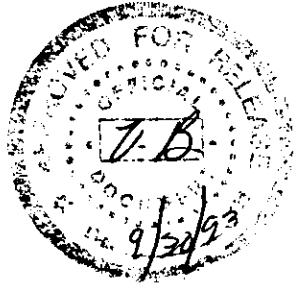
A-7900-013-2 (06/92) GEF095



A-7900-013-1 (06/92)

ENGINEERING CHANGE NOTICE				Page 2 of 2		1. ECN (use no. from pg. 1) 190362	
15. Design Verification Required [ ] Yes [X] No		16. Cost Impact ENGINEERING Additional [ ] \$ Savings [ ] \$ CONSTRUCTION Additional [ ] \$ Savings [ ] \$			17. Schedule Impact (days) Improvement [ ] Delay [ ]		
18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.							
SDD/DD	[ ]	Seismic/Stress Analysis	[ ]	Tank Calibration Manual	[ ]		
Functional Design Criteria	[ ]	Stress/Design Report	[ ]	Health Physics Procedure	[ ]		
Operating Specification	[ ]	Interface Control Drawing	[ ]	Spares Multiple Unit Listing	[ ]		
Criticality Specification	[ ]	Calibration Procedure	[ ]	Test Procedures/Specification	[ ]		
Conceptual Design Report	[ ]	Installation Procedure	[ ]	Component Index	[ ]		
Equipment Spec.	[ ]	Maintenance Procedure	[ ]	ASME Coded Item	[ ]		
Const. Spec.	[ ]	Engineering Procedure	[ ]	Human Factor Consideration	[ ]		
Procurement Spec.	[ ]	Operating Instruction	[ ]	Computer Software	[ ]		
Vendor Information	[ ]	Operating Procedure	[ ]	Electric Circuit Schedule	[ ]		
OM Manual	[ ]	Operational Safety Requirement	[ ]	ICRS Procedure	[ ]		
FSAR/SAR	[ ]	IEFD Drawing	[ ]	Process Control Manual/Plan	[ ]		
Safety Equipment List	[ ]	Cell Arrangement Drawing	[ ]	Process Flow Chart	[ ]		
Radiation Work Permit	[ ]	Essential Material Specification	[ ]	Purchase Requisition	[ ]		
Environmental Impact Statement	[ ]	Fac. Proc. Samp. Schedule	[ ]		[ ]		
Environmental Report	[ ]	Inspection Plan	[ ]		[ ]		
Environmental Permit	[ ]	Inventory Adjustment Request	[ ]		[ ]		
19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.							
Document Number/Revision		Document Number/Revision		Document Number/Revision			
N/A							
20. Approvals							
Signature		Date		Signature		Date	
OPERATIONS AND ENGINEERING				ARCHITECT-ENGINEER			
Cog Engineer J. B. Duncan		30 Sept 93		PE			
Cog. Mgr. J. G. Woolard		9/30/93		QA			
QA G. S. Corrigan		9-30-93		Safety			
Safety				Design			
Security				Environ.			
Environ.				Other			
Projects/Programs							
Tank Waste Remediation System							
Facilities Operations				DEPARTMENT OF ENERGY			
Restoration & Remediation				Signature or Letter No.			
Operations & Support Services							
IRM				ADDITIONAL			
Other							

9313042.1319

Date Received: <b>9/30/93</b>		<b>INFORMATION RELEASE REQUEST</b>		Reference: WHC-CM-3-4	
Complete for all Types of Release					
<b>Purpose</b>			ID Number (include revision, volume, etc.) <b>ECN 190362</b>		
<input type="checkbox"/> Speech or Presentation <input type="checkbox"/> Full Paper <input type="checkbox"/> Summary <input type="checkbox"/> Abstract <input type="checkbox"/> Visual Aid <input type="checkbox"/> Speakers Bureau <input type="checkbox"/> Poster Session <input type="checkbox"/> Videotape			<input checked="" type="checkbox"/> Reference <input checked="" type="checkbox"/> Technical Report <input type="checkbox"/> Thesis or Dissertation <input type="checkbox"/> Manual <input type="checkbox"/> Brochure/Flier <input type="checkbox"/> Software/Database <input type="checkbox"/> Controlled Document <input type="checkbox"/> Other		
(Check only one suffix)			List attachments. <b>SD-EN-TC-003 (w)</b>		
			Date Release Required <b>October 1, 1993</b>		
Title: <b>100-HR-3 Area Groundwater Treatment Tests for Ex Situ Removal of Chromate, Nitrate, &amp; Uranium (VI) by Precipitation/Reduction and/or Ion</b>			Unclassified Category <b>UC- 630</b>		Impact Level <b>30</b>
New or novel (patentable) subject matter? <input type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has disclosure been submitted by WHC or other company? <input type="checkbox"/> No <input type="checkbox"/> Yes Disclosure No(s).			Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions? <input type="checkbox"/> No <input type="checkbox"/> Yes (Identify)		
Copyrights? <input type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has written permission been granted? <input type="checkbox"/> No <input type="checkbox"/> Yes (Attach Permission)			Trademarks? <input type="checkbox"/> No <input type="checkbox"/> Yes (Identify)		
Complete for Speech or Presentation					
Title of Conference or Meeting			Group or Society Sponsoring		
Date(s) of Conference or Meeting		City/State		Will proceedings be published? <input type="checkbox"/> Yes <input type="checkbox"/> No Will material be handed out? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Title of Journal					
CHECKLIST FOR SIGNATORIES					
Review Required per WHC-CM-3-4		Yes	No	Reviewer - Signature Indicates Approval	
				Name (printed)	Signature Date
Classification/Unclassified		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Approval per OGC memo of 2/4/93 v.b. 9/30/93</i>	
Controlled Nuclear Information		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Patent - General Counsel		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Legal - General Counsel		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Applied Technology/Export		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Controlled Information or		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
International Program		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
WHC Program/Project		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Communications		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
RL Program/Project		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Publication Services		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Other Program/Project		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Information conforms to all applicable requirements. The above information is certified to be correct.					
References Available to Intended Audience N/A		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP	
Transmit to DOE-HQ/Office of Scientific and Technical Information		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Stamp is required before release. Release is contingent upon resolution of mandatory comments.	
Author/Requestor (Printed/Signature)		Date			
J. B. Duncan <i>JBD</i>		30 Sept 93			
Intended Audience				Date Cancelled	
<input type="checkbox"/> Internal <input type="checkbox"/> Sponsor <input checked="" type="checkbox"/> External				Date Disapproved	
Responsible Manager (Printed/Signature)		Date			
J. G. Woolard <i>JG Woolard</i>		9/30/93			